In a dirty world...

Storm 700 Series

Storm 700 Series keypads are intended for use in wet or dirty environments. These modular keypads are designed to withstand the ingress of liquids and other contaminants; manufactured to survive the rigours of modern industrial use.

Keytop legend tiles can be configured to suit individual applications.

Storm 700 Series

Tough keypads for tough environments.
In demanding or hostile environments, a keyboard operator must be confident that data can be entered quickly and accurately. With this objective the keys move with a positive over-centre action ensuring rapid and reliable data entry even in the most extreme conditions. Storm 700 Series keypads are supplied in 4, 12, 16, and 36 key configurations. The keypad's unique modular design enables combinations of keypads to be used in the construction of more complex keypad layouts.

The exceptional reliability of Storm keypads is achieved by an ingenious but simple method of construction. A moulded rubber mat is secured around a rigid circuit plate providing its own environmental seal. Storm keypads have been successfully tested after submersion under 1 metre of water for periods in excess of 1 hour. This was achieved without using gaskets or sealing compounds of any kind.

Storm 700 Series keypads are compatible with the Storm RS232 and USB keypad encoders (4, 12 & 16 key keypads only).

The keypads can be easily mounted to a flat surface or can be located beneath a suitable aperture in a fascia panel.

### SPECIFICATION & OPERATIONAL PERFORMANCE

#### ELECTRICAL
- **Contact Bounce**: 5ms (max)
- **Contact Resistance**: 100 ohm (max)
- **Insulation Resistance**: 50 Mohms (min) at 480V DC
- **Breakdown Voltage (to case)**: 500V AC (max 60 seconds)
- **Operating Voltage**: 24V DC (max)
- **Operating Current**: 50 mA (max)
- **Operating Current (typ)**: 20 mA (max)

#### MECHANICAL
- **Operational Life**: 2 million cycles (min)
- **Keypad Travel**: 1.5mm nominal
- **Actuation Force**: 160gms typical
- **Sealing Torque (Connector)**: 0.14 - 0.16 Nm
- **Connector**: Locking 0.1" pitch gold-plated square pin connector suitable for use with Molex 2695/6471 or 7720S series or similar female connectors

#### MATERIAL
- **Keypad Surface**: Engineering grade silicone rubber
- **Keypad Chassis**: Coated non-ferrous metal
- **Contact Circuit**: Gold on nickel plated FR4 PCB

#### ENVIRONMENTAL
- **Water Sealed**: BS5490 Class IP67 / EC529 Class IP67 when panel mounted
- **Humidity**: 90% RH at 40°C (104°F) 10 day (max) - Non-condensing
- **Operational Temperature**: -55°C to +125°C (-67°F to +257°F)

### ACCESSORIES FOR USE WITH STORM 700/900 SERIES KEYPADS

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legend Tile Set</td>
<td>70X00101</td>
<td>(X denotes type, &quot;A&quot; to &quot;P&quot;)</td>
</tr>
<tr>
<td>Under Panel Mounting Clips</td>
<td>7012CLO</td>
<td>For 4, 12 &amp; 16 key keypad.</td>
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<tr>
<td></td>
<td>7036CLO</td>
<td>For 36 key keypad.</td>
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</tbody>
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### DIMENSIONS

All dimensions are in millimetres.

A comprehensive range of interchangeable keytop legend tiles, for use with Storm 700 Series keypads, are available from your local Storm supplier.